

**FIGURE 1A**CHIR 12.12 light chain:

leader:

MALPAQLLGLLMLWVSGSSG

variable:

DIVMTQSPLESLTVTPGEPASISCRSSQSLLYSNGYNVLDWYLQKPGQSPQVLISLGSNRASG  
VPDRFSGSGSGTDFTLKISRVEAEDVGVVYCMQARQTPFTFGPGTKVDIR

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSK  
DSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSPVTKSFNRGEC**FIGURE 1B**CHIR-12.12 heavy chain:

leader:

MEFGLEWVFLVAILRGVQC

variable:

QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVISYEESENRYHAD  
SVKGRFTISRDNRSKITLYLQMNSLRTEDTAVVYCARDGGTAAPGPDYWGQGTLVTVSS

constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGL  
YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF  
LFPFKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREMQYNSTYRVV  
SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIISKAKGQPREPQVYTLPPSRREEMTKNQVSL  
TCLVKGFYPSDIAVEWESNGQPENNYKTTTPFVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV  
MHEALHNHYTQKSLSLSPGK

alternative constant region:

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGL  
YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF  
LFPFKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREMQYNSTYRVV  
SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIISKAKGQPREPQVYTLPPSRREEMTKNQVSL  
TCLVKGFYPSDIAVEWESNGQPENNYKTTTPFVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV  
MHEALHNHYTQKSLSLSPGK

**FIGURE 2A**

**DNA sequence of light chain of CHTR-12.12:**

[illegible]

**FIGURE 2B**

**DNA sequence of heavy chain of CHIR-12.12 (including introns):**

[illegible]

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**FIGURE 3A****CHIR-5.9 light chain:****leader:****MALLAQLLGLLMLWVPGSSG****variable:****AIVMTQPPPLSSPVTLGQPASISCRSSQSLVHSDGNTYLNWLQQRPGQPPRLLIYKFFRRLSG  
VFDRFSGSGAGTDFTLKISRVEAEDVGVVYCMQVTFPHTFGQGTRLLEIK****constant:****RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSK  
DSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC****FIGURE 3B****CHIR-5.9 heavy chain:****leader:****MGSTAILALLLAVLQGVCA****variable:****EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMMGIIYPQDS DTRYSP  
SFQGGVTFISADKSI STAYLQWSSLKASDTAMYYCARGTAAGR DYYYYYGM DVWGQG GTTVTVS  
S****constant:****ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGL  
YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVKPKSCDKTHTCPPCPAPPELLGGPSVF  
LFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREREQYNSTYRVV  
SVLTVLHQDWLNGREYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRREEMTKNQVSL  
TCLVKGFYPSDIAVEWESNGQPENNYKTTPFVLDSGDSFFLYSKLTVDKSRWQQGNVFPQSV  
MHEALRNHYTQKSLSLSPGK****alternative constant region:****ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGL  
YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVKPKSCDKTHTCPPCPAPPELLGGPSVF  
LFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREREQYNSTYRVV  
SVLTVLHQDWLNGREYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRREEMTKNQVSL  
TCLVKGFYPSDIAVEWESNGQPENNYKTTPFVLDSGDSFFLYSKLTVDKSRWQQGNVFPQSV  
MHEALRNHYTQKSLSLSPGK**

**FIGURE 4A**

Coding sequence for short isoform of human CD40:

```

1 atggttcgtc tgcctcgtca gttcgtccic tggguctgct tgcctgaccgc tglccatcaa
61 gaaccaccca ctgcctgcug agaaaaacag laactaaiaa acagtcaatg ctgtcttllg
121 tgcacgccng gacagaaact ggtgagtgao tgcacagagt tcuctgaac ggaatgcctt
181 octtgoggtg aaagcgaalt cctagacacc lggaaacagag agacacactg coqccagcac
241 aaataclgcg accccnacci agggcctcgg gtccagaaag agggcaccct agaaaacagac
301 accatctgca cctglgaaga aggcclggcgc tglacagatg aggcclgtga gagctgtglo
361 ctgcaccgcl catgologcc oggotttggg gtcnagcaga lgcctacagg gglilctgat
421 accatclgcy agccctgccc agtcggcltc ttctccaatg tctaatolgo ttogaaaaa
481 tglcacccli ggacuaagtc cccnaggalog gctgagagcc ctggtggiga tccccatca
541 ctccgggato ctgttlgcca tctcttggg gctggclit acaaaaag tggccaagaa
601 gccaaccaat aa

```

**FIGURE 4B**

Encoded short isoform of human CD40:

```

1 mvrplqevl wgciltavhp opptaercik ylinaqccsl cqpqqklvsl ctcftctcl
61 pgesefldt wnrethchqh kyedpnlglr vqqlgtactd tiotcsegwh olseacusev
121 llrscspgfg vkqiatevsl tiocpovvgf fanvesafek ohpwtrspgs acspggdphh
181 lrdpvchplg aglyqkaggc anq

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**FIGURE 4C**

Coding sequence for long isoform of human CD40:

```

1 atggttgto tgcctotgca glgcgtccic tggggctgct tgcagacgc tgcacacca
61 gaaccaccca ctgcatgcag agaaaaacag taccataaa acagtcaglg cgtctcttg
121 tggcagccag gacagaaac tggtagagac tgcacagagi tcactgaaac ggaatgccit
181 ccttgogglg aaagcgaat cctagacacc tggaaacagag agacacacig ccaacagcag
241 aaatactgcg accconacct uggtcttogg gtccagcaga agggcaacac agaaacagac
301 accnctgca cctgtagaga aggcctggcag tgaagagag aggcctgga ggcctgtgic
361 ctgcacogct calyctogcc cggcttggg gtcaagcaga ttgtacagg ggltctgat
421 accalcigeg agccctgcc aglcggcttc ttctcaalg tgcacatgc tttagaaua
481 tgcacccit ggaacagolg tgagacaaa gacctgggtg tgcacaggc aggcacaaa
541 aagucgtatg lgtctgag toccaggat cggctgagag ccttggtgt gatcccpato
601 atctcggga lctgttga catccctc gtgcctgtol ltaaaaaa ggtggccaag
661 aagccaacca tlaaggccc ccaccccaag cagggaucac aggaatcaa tttcccgac
721 gultctctg gctcaaac tgcctcaca glgcaggaga cttacalg atgcaaacg
781 glacccaugg aggaagcna agagagtcgo atctcaglc aggaagaca gtga

```

**FIGURE 4D**

Encoded long isoform of human CD40:

```

1 mvrplqcvl wgciltavhp cpptacrelq ylinqccsl cpgqqlvsvd clestctec
61 pgesafldt wnrothchqh kyedpnlgr vqqlgtactd tictocogwh ctseacesv
121 lhrscspgfg vkqiatgvsd ticepovgt fanvsaalc chpwscetk dlvvqagln
181 kdvvcgpgd rraivvpi ifyilflll vlvfickvak kptnkaphpk qopqcinfpd
241 dlpgsnlaap vqerlhgcqp vtqcdgkesr isvqerq

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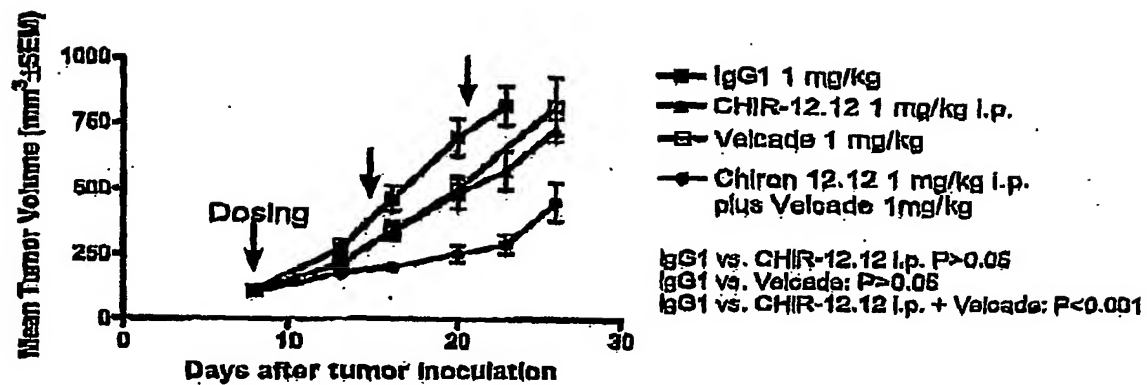


FIGURE 5

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**FIGURE 6**